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(71) Applicant (for all designated States except US): THE BABCOCK & WILCOX COMPANY [US/US]; 20 S. Van Buren Avenue, Barberton, OH 44203-0351 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DOWNS, William [US/US]; 8645 Schubert Avenue, Alliance, OH 44601 (US). FARTHING, George, A., Jr. [US/US]; 12276 Cenfield NE, Alliance, OH 44601 (US).

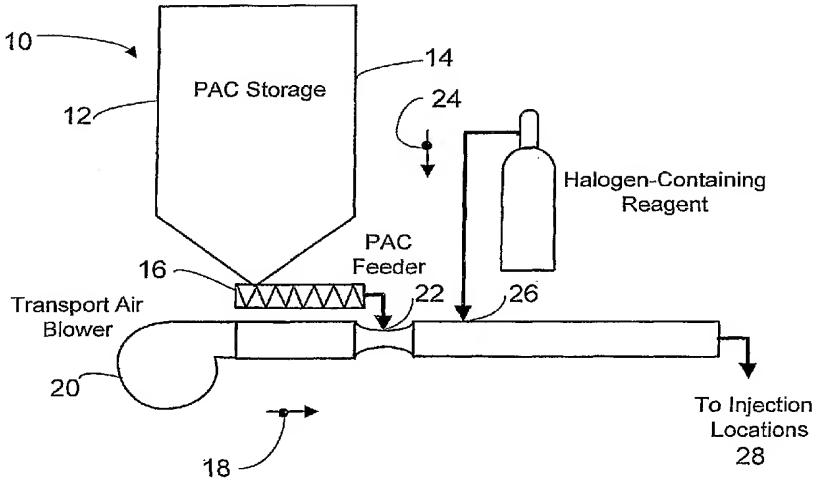
(74) Agent: MARICH, Eric; The Babcock & Wilcox Company, 20 South Van Buren Avenue, Barberton, OH 44203-0351 (US).

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(54) Title: DYNAMIC HALOGENATION OF SORBENTS FOR THE REMOVAL OF MERCURY FROM FLUE GASES



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(57) Abstract: A halogen-containing gas is injected into a flowing transport air/sorbent stream at a point close to the point where the sorbent and transport air first mix to maximize the residence time available for the halogen-containing compound to be adsorbed onto the sorbent surface prior to the sorbent being injected into a flue gas containing mercury. This process maximizes the benefit and utilization of the halogen-containing reagent by placing it exactly where it is needed to facilitate elemental mercury removal - on the surface of the sorbent. The sorbent particles with their loading of adsorbed halogen-containing reagent enter the flue gas with a high reactivity for the removal of elemental mercury.



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